

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-9 (cancelled)

Claim 10 (new): A transmission system for a scooter comprising a gear train assembly and a gear shifting means; said gear train assembly comprising an input shaft provided with an integral gear, intermediate shaft, an output shaft, an input fork, an intermediate fork, an output fork, three dog gears, four slotted gears, and gear; said gear shifting means comprising a crank case assembly, a sector plate, a gear shifting lever assembly, a gear shift lever having a slot, a pair of lanced projection, an integral bent lug, six numbers of gear shifting pins, a drum assembly provided with milled profiles, a spring loaded inhibitor, a stopper pin, a compression spring and a torsion spring; said gear shifting lever assembly being fastened to said sector plate at one end thereof and said gear shift lever being welded at the other end, said sector plate being operable through control means provided; said gear shifting lever assembly being connected to said crank case assembly by said torsion spring; said drum assembly being rotatably fitted within said crank case assembly, said gear shifting pin being slidably fitted through splines to said drum assembly by said compression spring, said gear shifting pin being operable by said lanced projection and its movement being limited by said bent lug, said inhibitor being connected to said gear shifting pin through a torsion spring; said input fork, intermediate fork, and output fork being engaged in said milled profiles on said drum assembly; the other end of said forks being connected to dog gears respectively, said gear and dog gear being rotatably fitted on said input shaft, said slotted gears and dog gear being rotatably fitted on said intermediate shaft and said slotted gears and dog gear being rotatably fitted on said output shaft to achieve the desired gear ratios and resetting said sector plate and said control means back to its normal position.

Claim 11 (new): The system for a scooter as claimed in claim 10, wherein said transmission system being spatially located within the wheel rim diameter code.

Claim 12 (new): The system as claimed in claim 10, wherein said gear shifting pin being operable by lever attached to gear shift lever by a pin.

Claim 13 (new): The system as claimed in claim 10, wherein the control means comprises a gear control link which is fitted to a twist grip mounted on needle roller bearings operated by hand; one end of cables is connected to said gear control link and the other end is connected to said sector plate.

Claim 14 (new): The system as claimed in claim 10, wherein said control means comprises a lever which is operable by foot, one end of cables is connected to said lever and the other end is connected to said sector plate.

Claim 15 (new): The system as claimed in claim 14, wherein said sector plate is operated by means selected from electrical motor or by solenoid or hydraulically or pneumatically.

Claim 16 (new): The system as claimed in claim 10, wherein said input shaft gets drive from the crank shaft through flexible linkage such as chain, belt, or drive shaft.

Claim 17 (new): The system as claimed in claim 10, wherein the number of transmission ratio is three or four.